Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_

**Notes Questions for the Unit 11 Notes, Part 2: From Gene to Protein**

Ms. Ottolini, AP Biology

1. Describe the difference between transcription and translation. What are the starting and ending molecules of each process, and where does each process occur in a eukaryotic cell?
2. A possible sequence of nucleotides in the template strand of **DNA** that would code for the polypeptide sequence Ser-Pro-Thr-His would be… *(record your answer from the 3’ to 5’ direction)*
3. Use the codon chart given below to translate the following mRNA sequence into an amino acid sequence (polypeptide). Abbreviate the names of the amino acids using the first three letters.

5’ AAA CGC AGA CCC GGA UAU 3’

1. Explain the difference between a point and frameshift mutation.

